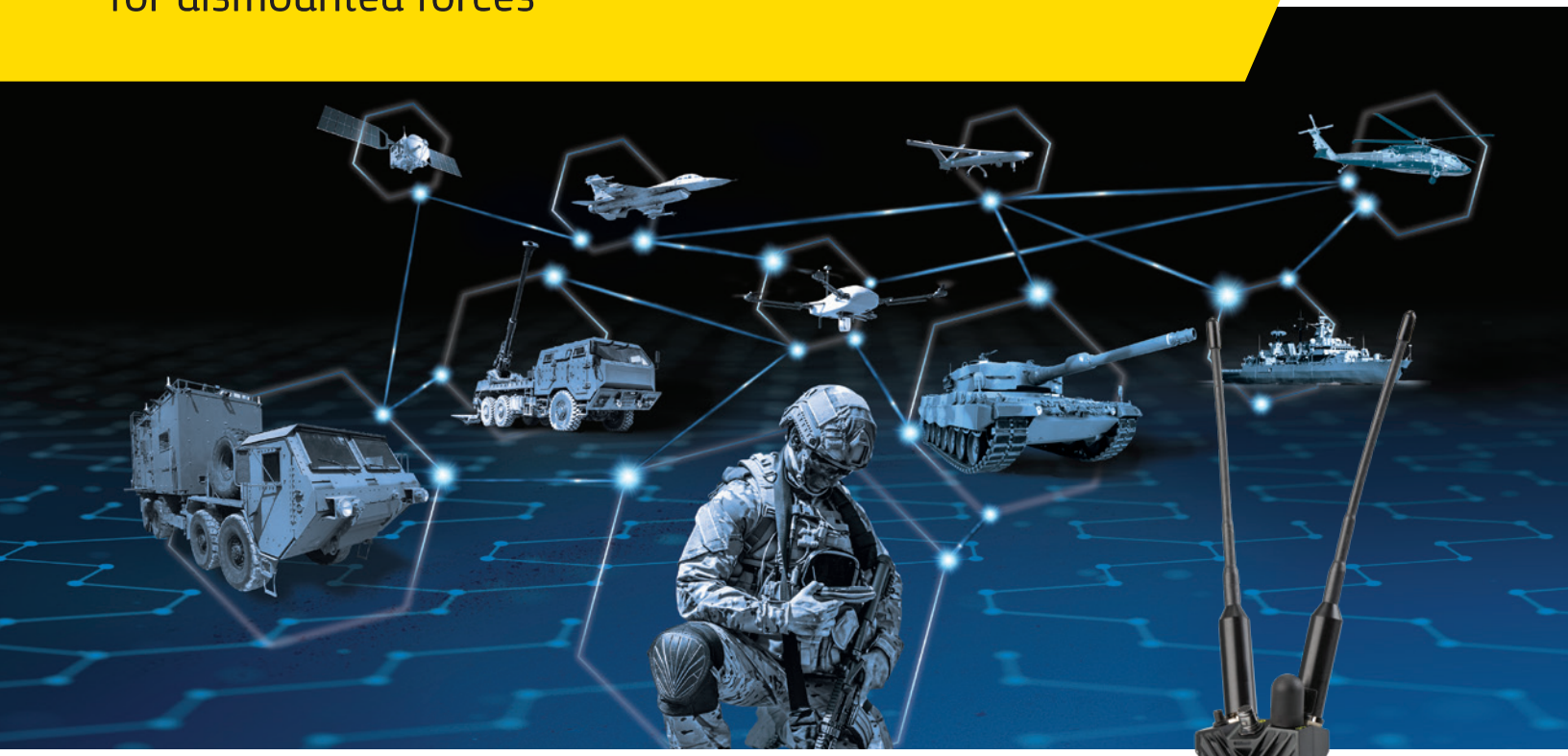
E-LynX™ SR

Tactical multi-band, multi-channel soldier SDR for dismounted forces



- **Secure and powerful SDR platform with 2Tx & 2Rx RF channels**
- **Complete NATO frequency coverage: U, L and S bands**
- **Extended network coverage with high data rates**
- **Advanced techniques:** Cognitive waveforms with spectrum sensing, unique multi-hop concurrent flooding, and MIMO
- **Robust communication:** Unmatched immunity, information security, and GNSS-independent self-synchronization
- **Versatile operation:** Multiple scenarios including MUM-T
- **Integrated services:** Simultaneous high-quality voice sessions, IP data, BFT and video in a single network
- **Intuitive user interface:** Voice menu with multi-language support, wireless PTT, and headset

Elbit Systems™
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E-LynX™ SR

Multi-role, Multi-waveform

A combat-proven solution providing a dynamic, secure network adaptable to any terrain or mission.

Superior Performance

Seamless communication and situational awareness with superior RF performance and minimal SWaP.

Member of E-LynX™ SDR Family

Delivers advanced multi-domain networking solutions, meeting the complex communication and connectivity needs of modern battlefields across all echelons and operational scenarios.

Technical Specifications

General	
Frequency range	225-1800 MHz, 1980 – 2900MHz
Radio presets	100 configurable presets
GNSS	Internal receiver for location report and 1PPS, supporting multiple constellations
Interfaces	Ethernet, USB, analog audio, Bluetooth, external communication bearers (Cellular, Satcom, etc.)
Operation	Keypad and voice feedback
Extensive software tools	Configuration, planning and management, network control, security (including keys generation and loading), network simulation
Mounted Options	2W/20W vehicular adapters
Immune & Secure Communication	
ECCM	Robust frequency hopping combined with FEC and interleaver for improved jamming resistance, sense and avoid
Security	• COMSEC and TRANSEC utilizing AES-256 • Emergency erase • Secured management via SNMPv3
Power	
Power input	9-16 VDC
Power sources	Multiple rechargeable Li-ion battery options
Physical	
Dimensions (HxWxD)	120x74x40mm (without battery)
Weight	390g (without battery)
Qualifications	
Environmental	MIL-STD-810G
EMC	MIL-STD-461F

Soldier Radio Waveform	
Networking	Multi-hop Mobile Ad-Hoc IP Network (MANET) featuring robust routing technologies: concurrent flooding and store & forward, multi-hop, self-forming, self-healing
Services	Simultaneous voice (analog and external VoIP), IP data, IP video and BFT/PLI. Multiple voice groups in a single net.
Network synchronization	Autonomous, no master station, no single point of failure, no reliance on GNSS receiver or any external signal
Network members	Up to 255 members
Voice groups	• Up to 12 simultaneous voice group sessions / Up to 4 voice groups per radio • Dual PTT enables dynamic network hierarchy
Transmitter and Receiver Performance	
Output power	2W for UHF band 2 x 1W for L-S bands
Channel bandwidth	Up to 1 MHz in UHF Up to 20 MHz in L and S bands with MIMO Up to 40 MHz for sensing
Frequency stability [ppm]	0.3 ppm
Sensitivity	-107dBm @ 10dB SINAD
Spurious suppression	75dB above MDS
Harmonic suppression	HD2/3 > -20dBm, HD4 > -80dBc
Output protection	Open and short-circuit

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